

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639445

Luminaire Tested: GWS-SA5B-830-U-5MQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-830-U-5MQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

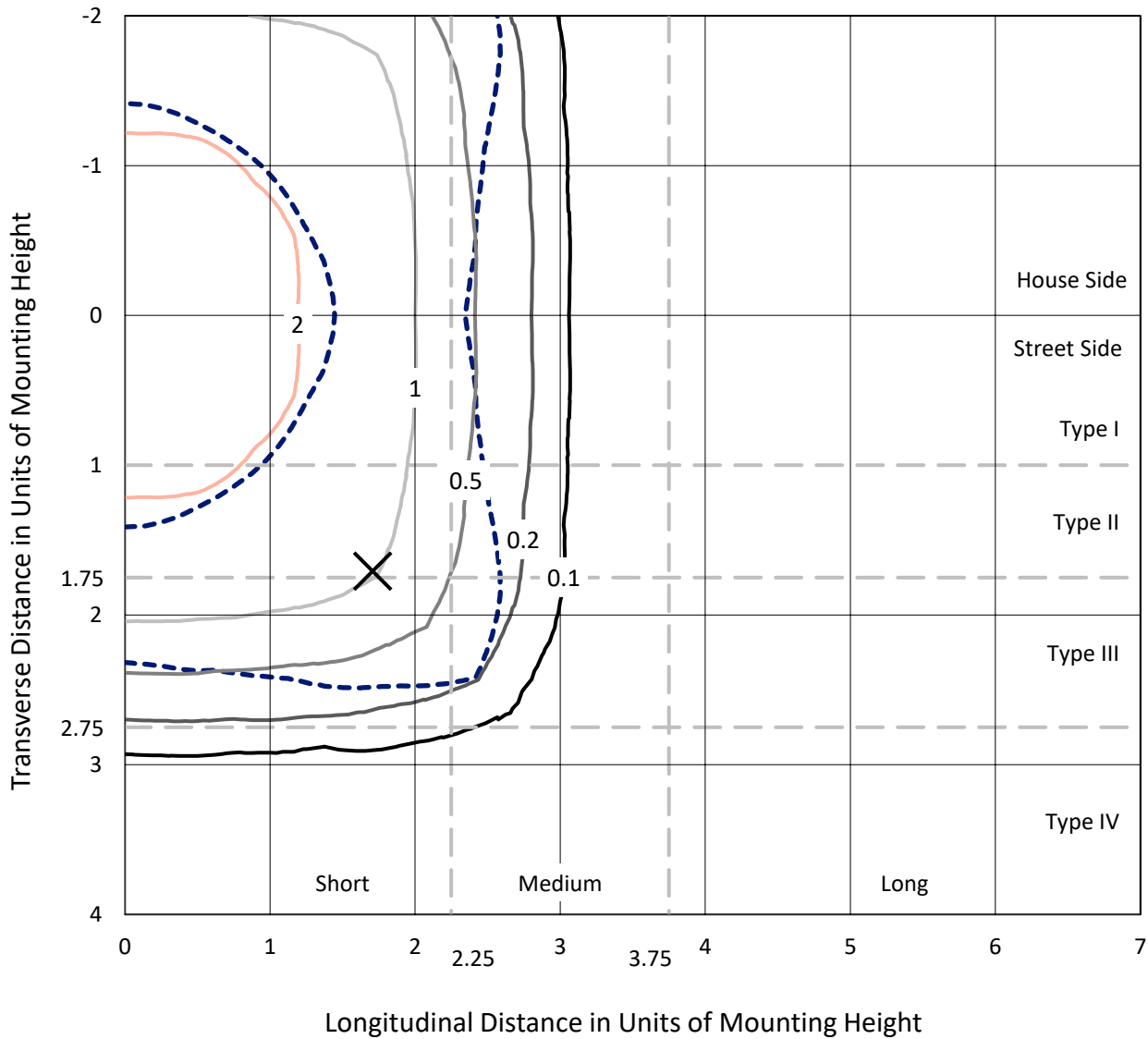
Lumens per Lamp: N/A  
Luminaire Lumens: 14607 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P639445  
 CATALOG NUMBER: GWS-SA5B-830-U-5MQ-W

### Iso-Footcandle Lines of Horizontal Illumination

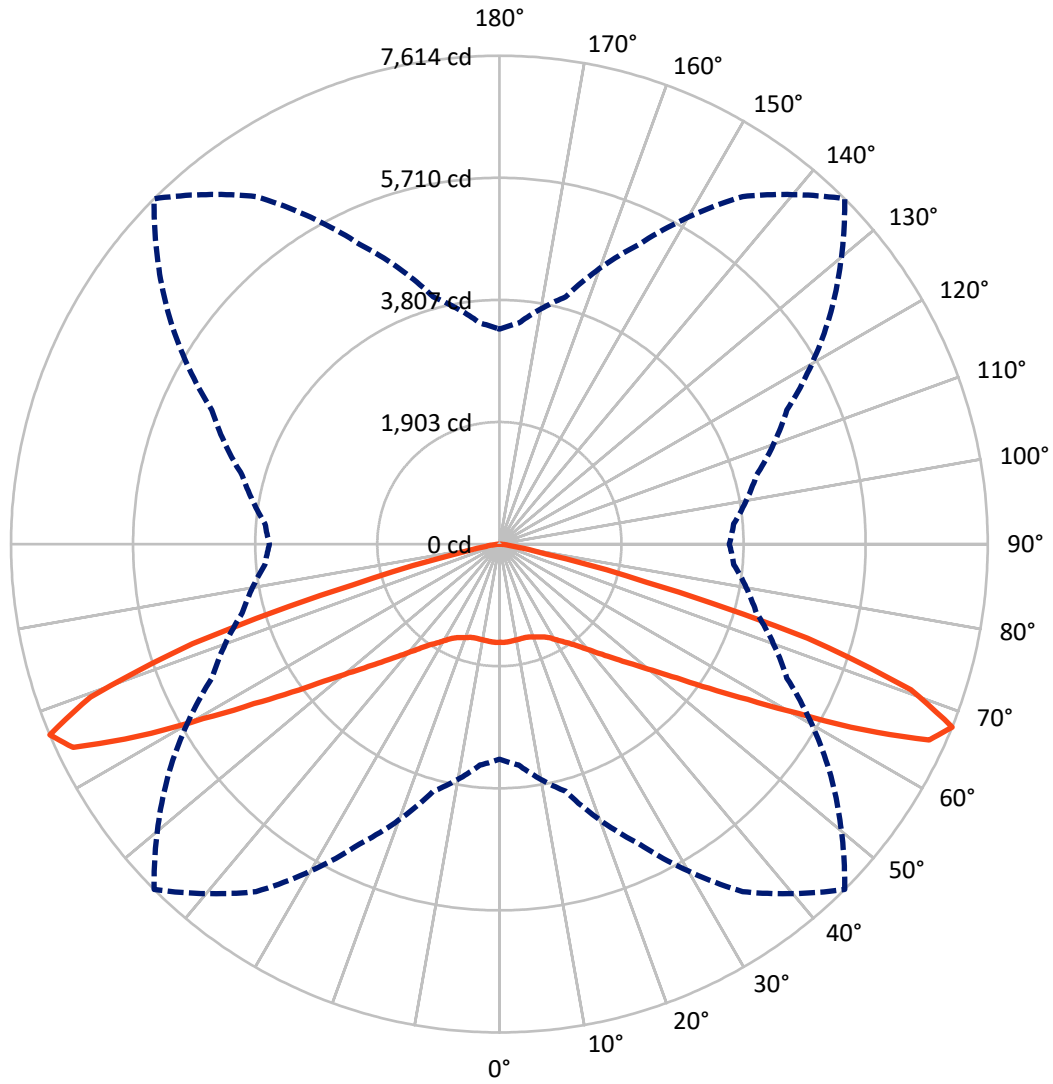
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P639445  
CATALOG NUMBER: GWS-SA5B-830-U-5MQ-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P639445

CATALOG NUMBER: GWS-SA5B-830-U-5MQ-W

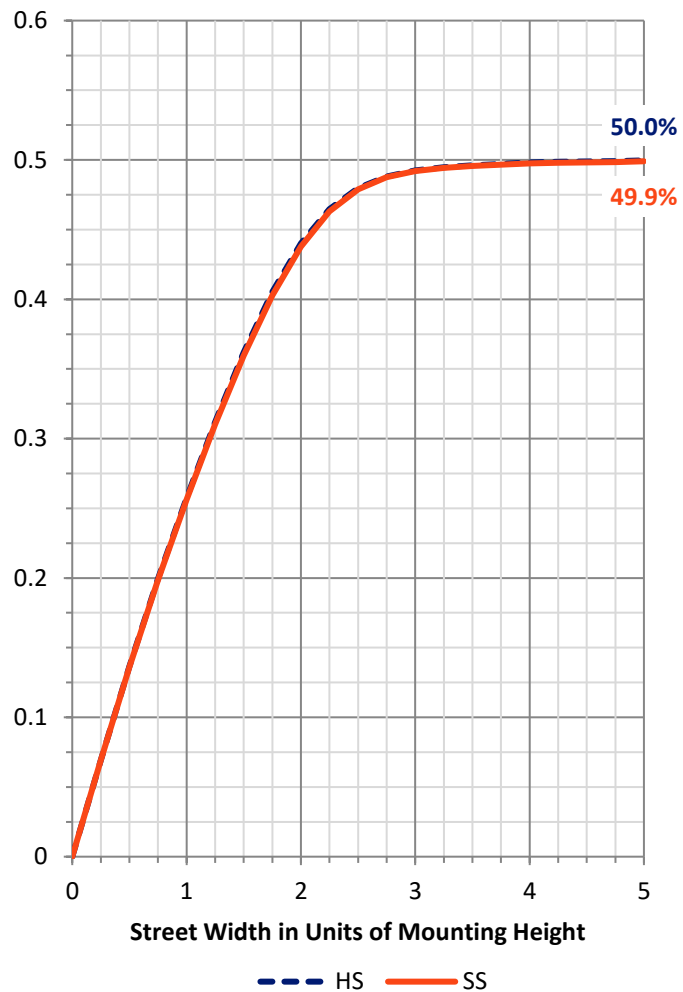
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7303.5	0.0	7303.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7303.5	0.0	7303.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14607.0	0.0	14607.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	1.0
10°-20°	425.3	2.9
20°-30°	733.5	5.0
30°-40°	1192.7	8.2
40°-50°	2008.2	13.7
50°-60°	3558.1	24.4
60°-70°	5086.1	34.8
70°-80°	1395.9	9.6
80°-90°	62.5	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14607.0	100.0
0°-180°	14607.0	100.0

**Coefficient of Utilization**

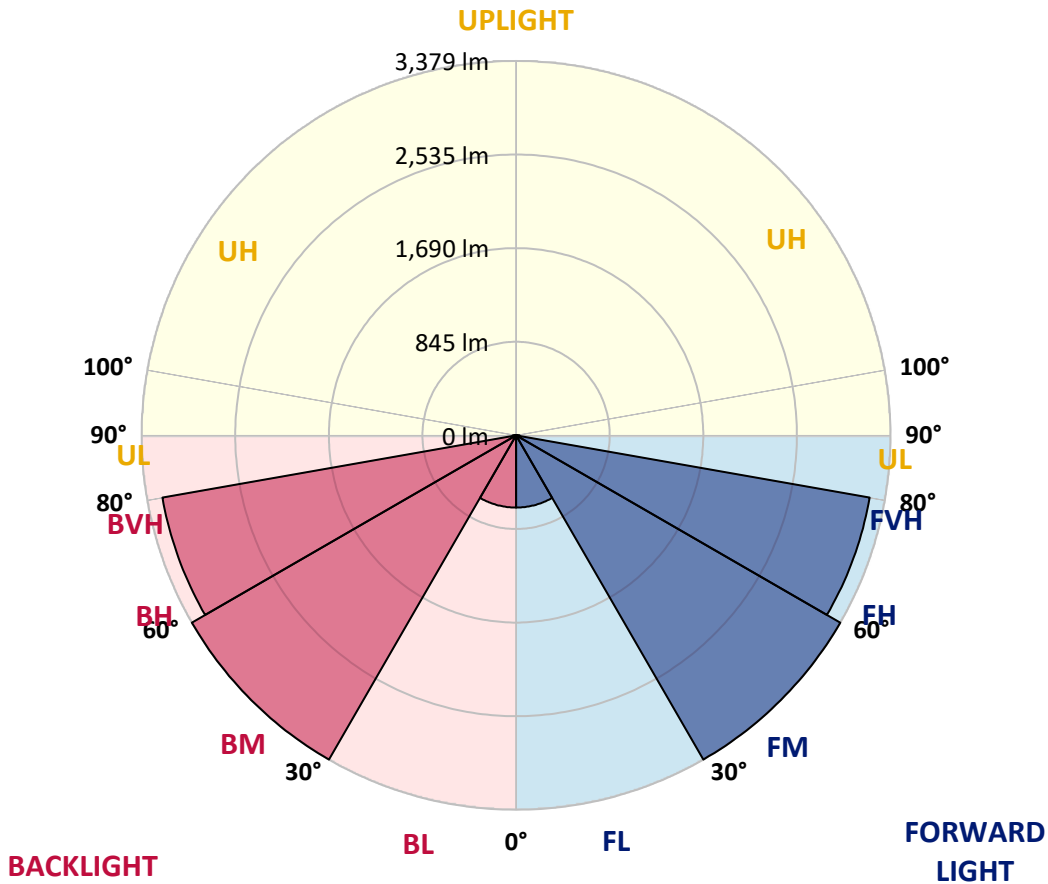


REPORT NUMBER: P639445  
 CATALOG NUMBER: GWS-SA5B-830-U-5MQ-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.8	4.5			
FM (30°-60°)	3379.5	23.1			
FH (60°-80°)	3241.0	22.2			G2/5000
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	651.8	4.5	B2/1000		
BM (30°-60°)	3379.5	23.1	B3/5000		
BH (60°-80°)	3241.0	22.2	B4/5000		G2/5000
BVH (80°-90°)	31.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





REPORT NUMBER: P639445  
 CATALOG NUMBER: GWS-SA5B-830-U-5MQ-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1519.7	1518.7	1523.8	1526.8	1525.8	1532.9	1531.8	1529.8	1529.8	1526.8	1534.9
5°	1519.7	1518.7	1522.7	1523.8	1521.7	1527.8	1525.8	1523.8	1523.8	1519.7	1526.8
7.5°	1511.6	1512.6	1515.7	1517.7	1515.7	1520.7	1517.7	1513.6	1512.6	1508.6	1515.7
10°	1496.5	1497.5	1500.5	1505.6	1506.6	1515.7	1510.6	1503.5	1500.5	1496.5	1503.5
12.5°	1487.4	1488.4	1491.4	1497.5	1499.5	1511.6	1506.6	1495.4	1490.4	1486.3	1493.4
15°	1485.3	1486.3	1490.4	1496.5	1499.5	1511.6	1506.6	1493.4	1486.3	1481.3	1487.4
17.5°	1485.3	1487.4	1493.4	1502.5	1508.6	1520.7	1514.7	1499.5	1489.4	1480.3	1486.3
20°	1486.3	1489.4	1498.5	1511.6	1526.8	1544.0	1535.9	1515.7	1501.5	1490.4	1494.4
22.5°	1495.4	1500.5	1511.6	1528.8	1551.1	1571.3	1564.2	1536.9	1516.7	1501.5	1505.6
25°	1526.8	1528.8	1543.0	1565.2	1586.4	1603.6	1596.6	1571.3	1546.0	1527.8	1532.9
27.5°	1582.4	1587.5	1599.6	1622.8	1641.0	1650.1	1649.1	1631.9	1606.7	1590.5	1594.5
30°	1649.1	1654.2	1670.4	1696.7	1714.9	1725.0	1721.9	1708.8	1685.5	1663.3	1667.3
32.5°	1727.0	1729.0	1748.2	1777.6	1796.8	1811.9	1801.8	1787.7	1758.3	1732.1	1734.1
35°	1826.1	1829.1	1849.3	1876.6	1891.8	1903.9	1901.9	1887.8	1856.4	1828.1	1835.2
37.5°	1950.5	1952.5	1970.7	2005.1	2017.2	2026.3	2028.3	2021.2	1988.9	1952.5	1959.6
40°	2105.2	2106.2	2126.4	2156.7	2169.9	2175.9	2176.9	2178.0	2144.6	2117.3	2115.3
42.5°	2285.1	2290.2	2318.5	2347.8	2353.9	2350.9	2361.0	2371.1	2338.7	2301.3	2304.3
45°	2500.5	2503.5	2542.0	2574.3	2563.2	2553.1	2572.3	2592.5	2563.2	2514.7	2500.5
47.5°	2755.3	2761.4	2802.8	2835.2	2817.0	2798.8	2830.1	2851.4	2803.8	2752.3	2739.1
50°	3043.5	3047.5	3106.2	3146.6	3125.4	3092.0	3131.4	3153.7	3090.0	3026.3	2998.0
52.5°	3384.2	3376.1	3454.0	3524.8	3511.6	3468.1	3500.5	3504.5	3409.5	3319.5	3291.2
55°	3799.8	3791.7	3869.6	3947.4	3979.8	3968.6	3953.5	3929.2	3788.7	3692.6	3666.3
57.5°	4284.1	4258.8	4368.0	4473.2	4544.0	4564.2	4499.5	4442.9	4331.6	4213.3	4183.0
60°	4734.1	4733.1	4906.0	5088.0	5282.1	5363.0	5199.2	5045.5	4795.7	4580.4	4536.9
62.5°	4860.5	4881.7	5164.8	5615.8	6095.0	6381.2	5949.4	5440.8	4958.5	4634.0	4576.3
65°	4549.0	4601.6	5004.0	5715.9	6662.3	7362.0	6387.3	5449.9	4777.5	4373.1	4312.4
67.5°	3352.9	3458.0	3990.9	5157.7	6613.7	7613.7	6309.4	4945.4	4149.6	3668.3	3584.4
70°	1654.2	1754.3	2176.9	3393.3	5441.9	6805.9	5459.0	3727.0	2802.8	2339.7	2262.9
72.5°	608.7	649.1	815.0	1452.0	3003.0	5027.3	3733.1	2081.9	1357.9	1080.9	1029.3
75°	298.3	305.4	330.6	487.4	1108.2	2366.0	1754.3	798.8	499.5	434.8	420.6
77.5°	190.1	193.1	205.3	232.6	355.9	745.2	531.8	315.5	244.7	234.6	234.6
80°	106.2	109.2	125.4	144.6	166.8	255.8	191.1	189.1	160.8	140.5	137.5
82.5°	50.6	55.6	79.9	78.9	88.0	128.4	112.2	102.1	103.1	77.9	73.8
85°	23.3	23.3	31.3	37.4	39.4	43.5	51.6	58.6	57.6	39.4	42.5
87.5°	11.1	11.1	11.1	10.1	9.1	8.1	11.1	18.2	26.3	18.2	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)